

IN THE CLAIMS:

Please amend Claims 1, 6, 9, 13 and 19-21 and add new Claims 22-25 as follows.

1. (Currently Amended) A display control apparatus comprising:
  - an input unit, arranged to input an image signal;
  - a judgement unit, arranged to judge a resolution of the image signal;
  - a detection unit, arranged to detect ~~a moving change~~ movement between pictures of the image signal;
  - an interpolation unit, arranged to adaptatively interpolate the image signal in accordance with the judgement results by said judgement unit and with the detection results by said detection unit; and
  - a control unit arranged to ~~control whether or not a display device simultaneously drives a plurality of lines which are part of all lines thereof in a common time period; switch between a first state of driving a display device so as to input a driving signal through one line by one line among total lines of the display device and a second state of driving the display device so as to input the driving signal through partial and plural lines by partial and plural lines among the total lines of the display device~~ in accordance with the detection results of said detection unit.

2. (Previously Presented) An apparatus according to claim 1, wherein said input unit can selectively input one of an image signal from a computer and an image signal of a television format.

3. (Previously Presented) An apparatus according to claim 2, further comprising:

a conversion unit, arranged to convert the image signal of the television format from a field unit signal into a frame unit signal.

4. (Previously Presented) An apparatus according to claim 1, wherein said interpolation unit interpolates the image signal to have a horizontal resolution same as the horizontal resolution of a display device, if said detection unit detects that the change in the image signal is large, and in other cases, interpolates the image signal to have horizontal and vertical resolutions same as the horizontal and vertical resolutions of the display device.

5. (Original) An apparatus according to claim 4, wherein the resolution of the image signal is smaller than the resolution of the display device.

6. (Currently Amended) An apparatus according to claim 1, wherein said control unit ~~controls the display device to drive the plurality of lines thereof at the same time in the common time period~~ selects the state of driving the display device so as to input the driving signal through partial and plural lines by partial and plural lines among the total lines of the display device when said detection unit detects the ~~moving change~~ movement between the pictures of the image signals, which is larger than a predetermined value.

7. (Previously Presented) An apparatus according to claim 1, wherein said judgement unit judges a resolution in accordance with a sync signal contained in the image signal.

8. (Previously Presented) An apparatus according to claim 7, wherein said judgement unit judges a resolution by measuring horizontal and vertical sync signals contained in the image signal.

9. (Currently Amended) A display control apparatus comprising:  
an input unit, arranged to input an image signal;  
a judgement unit, arranged to judge a resolution of the image signal;  
a selection unit, arranged to select one of a first image signal interpolation mode and a second image signal interpolation mode whose interpolation method is different from that of the first image signal interpolation mode;  
an interpolation unit, arranged to adaptatively interpolate the image signal in accordance with the judgement results by said judgement unit and with the selection results by said selection unit; and  
a control unit arranged to ~~control whether or not a display device simultaneously drives a plurality of lines which are part of all lines thereof in a common time period; switch between a first state of driving a display device so as to input a driving signal through one line by one line among total lines of the display device, and a second state of driving the display device so as to input the driving signal through partial and plural lines by partial and~~

plural lines among the total lines of the display device in accordance with the selection results of said selection unit.

10. (Previously Presented) An apparatus according to claim 9, wherein:  
the first image signal interpolation mode is a mode of interpolating the image signal to have a horizontal resolution same as the horizontal resolution of the display device and displaying the same image signal on a plurality of lines of the display device at the same time; and

the second image signal interpolation mode is a mode of interpolating the image signal to have horizontal and vertical resolutions same as the horizontal and vertical resolutions of the display device and displaying the image signal on the display device.

11. (Previously Presented) An apparatus according to claim 9, wherein said judgement unit judges a resolution in accordance with a sync signal contained in the image signal.

12. (Previously Presented) An apparatus according to claim 11, wherein said judgement unit judges a resolution by measuring horizontal and vertical sync signals contained in the image signal.

13. (Currently Amended) A display control apparatus comprising:  
an input unit, arranged to selectively input one of a computer image signal generated from a computer and a television image signal of a television format;

a judgement unit, arranged to judge a resolution of the image signal input by said input unit;

an interpolation unit, arranged to adaptatively interpolate the image signal input by said input unit in accordance with a kind of image signal input by said input unit and with the judgement results by said judgement unit; and

a control unit arranged to ~~control whether or not a display device simultaneously drives a plurality of lines which are part of all lines thereof in a common time period, switch between a first state of driving a display device so as to input a driving signal through one line by one line among total lines of the display device, and a second state of driving the display device so as to input the driving signal through partial and plural lines by partial and plural lines among the total lines of the display device in accordance with the kind of image signal input.~~

14. (Previously Presented) An apparatus according to claim 13, wherein said interpolation unit interpolates the television image signal to have a horizontal resolution same as the horizontal resolution of a display device, if said input unit inputs the television image signal, and interpolates the computer image signal to have horizontal and vertical resolutions same as the horizontal and vertical resolutions of the display device if said input unit inputs the computer image signal.

15. (Previously Presented) An apparatus according to claim 14, wherein said control unit controls the display device so as to drive the plurality of lines thereof at the same time in a common time period if the television image signal is input.

16. (Previously Presented) An apparatus according to claim 13, wherein said judgement unit judges a resolution in accordance with a sync signal contained in the image signal.

17. (Previously Presented) An apparatus according to claim 16, wherein said judgement unit judges a resolution by measuring horizontal and vertical sync signals contained in the image signal.

18. (Previously Presented) An apparatus according to claim 13, further comprising:

a conversion unit, arranged to convert the television image signal from a field unit signal into a frame unit signal.

19. (Currently Amended) A display control method comprising the steps of:

inputting an image signal;  
judging a resolution of the image signal;  
detecting a moving change between pictures of the image signal;  
adaptatively interpolating the image signal in accordance with the judgement results in said judging step and with the detection results in said detecting step; and  
~~controlling whether or not a display device simultaneously drives a plurality of lines which are part of all lines thereof in a common time period, switching between a first state of driving a display device so as to input a driving signal through one line by one line~~

among total lines of the display device, and a second state of driving the display device so as to input the driving signal through partial and plural lines by partial and plural lines among the total lines of the display device in accordance with the detection results in said detecting step.

20. (Currently Amended) A display control method comprising the steps of:

    inputting an image signal;  
    judging a resolution of the image signal;  
    selecting one of a first image signal interpolation mode and a second image signal interpolation mode whose interpolation method is different from that of the first image signal interpolation mode;  
    adaptatively interpolating the image signal in accordance with the judgement results in said judging step and with the selection results in said selecting step; and  
    controlling ~~whether or not a display device simultaneously drives a plurality of lines which are part of all lines thereof in a common time period, switching between a first state of driving a display device so as to input a driving signal through one line by one line among total lines of the display device, and a second state of driving the display device so as to input the driving signal through partial and plural lines by partial and plural lines among the total lines of the display device~~ in accordance with the selection results in said selecting ~~means~~ step.

21. (Currently Amended) A display control method comprising the steps of:

selectively inputting one of a computer image signal generated from a computer and a television image signal of a television format;

judging a resolution of the image signal input in said inputting step;

adaptatively interpolating the image signal input in said inputting step,

in accordance with a kind of image signal input in said inputting step and with the judgement results by said judging step; and

controlling whether or not a display device drives simultaneously a plurality of lines which are part of all lines thereof in a common time period, switching between a first state of driving a display device so as to input a driving signal through one line by one line among total lines of the display device, and a second state of driving the display device so as to input the driving signal through partial and plural lines by partial and plural lines among the total lines of the display device in accordance with the kind of image signal input said inputting step.

22. (New) A display control apparatus comprising:

an input unit, arranged to input an image signal;

a detection unit, arranged to detect movement between pictures of the image signal; and

a control unit arranged to switch between a first state of driving a display device so as to input a driving signal through one line by one line among total lines of the display device, and a second state of driving the display device so as to input the driving signal through partial and plural lines by partial and plural lines among the total lines of the display device in accordance with the detection results of said detection unit.

23. (New) An apparatus according to claim 22, wherein said input unit can selectively input one of an image signal from a computer and an image signal of a television format.

24. (New) An apparatus according to claim 22, further comprising:  
a conversion unit, arranged to convert the image signal of a television format from a field unit signal into a frame unit signal.

25. (New) An apparatus according to claim 22, wherein said control unit selects the state of driving the display device so as to input the driving signal through partial and plural lines by partial and plural lines among the total lines of the display device when said detection unit detects movement between the pictures of the image signals which is larger than a predetermined value.